


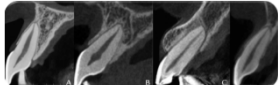
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**Q: Why Don't Our
Teeth Fit Our Jaws,
and What Can We
Do About it?**


A: SFOT



65% 9% 1% 25%

Rodrigues DM, J Pr. D 2021






1

Why Don't Our Teeth Fit Our Jaws?

The Problem	The Remedies	The WHY?
Orthodontic Risk Factors Restorative Risk Factors Corticotomies Augmentation	Cases – Adults Cases - Adolescents Evidence	Anthropology/Genetics SFOT – DSIDS Clinical Reality Take Home Message


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2



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3


Questions?

Why are orthodontic problems and gingival recession so prevalent in the USA and other new world countries?
Are they related or perhaps codependent?

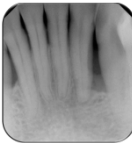
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4

Today, do we have pre-emptive therapies, that will reduce or even eliminate the risk of these 5 iatrogenic complications, frequently encountered in post orthodontically treated patients?







4 R's and a D.
Recession, Resorption
Relapse, Rejection
Decalcification



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5

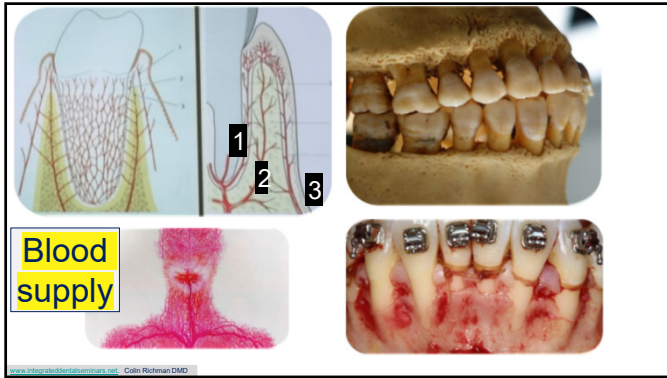
Iatrogenic

4 R's + 1'D'

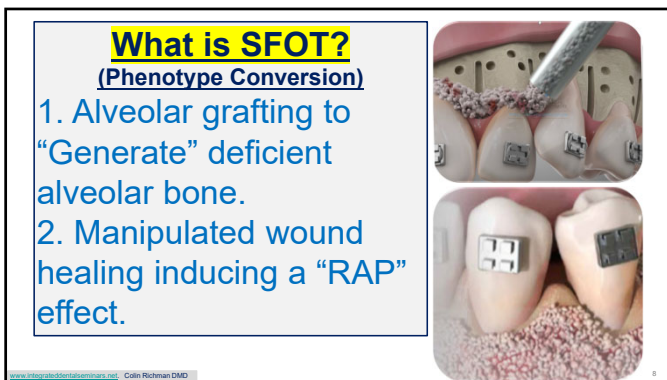
1 Recession	(80%)	(P)
2 Relapse	(80%)	(P)
3 Root resorption	(15%)	(P)
4 Rejection, Tx. Plan	(?)	
5 White Spots	(<=>80?)	(R-P)

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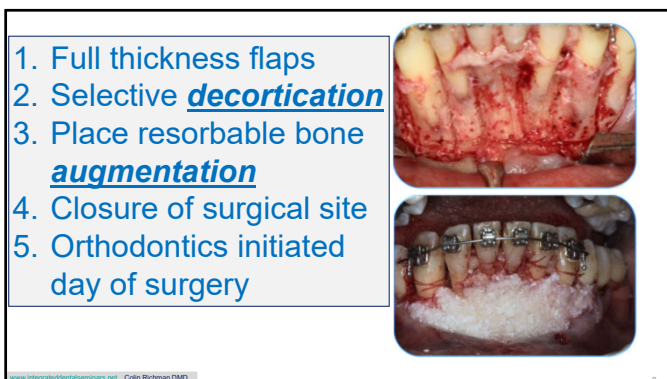
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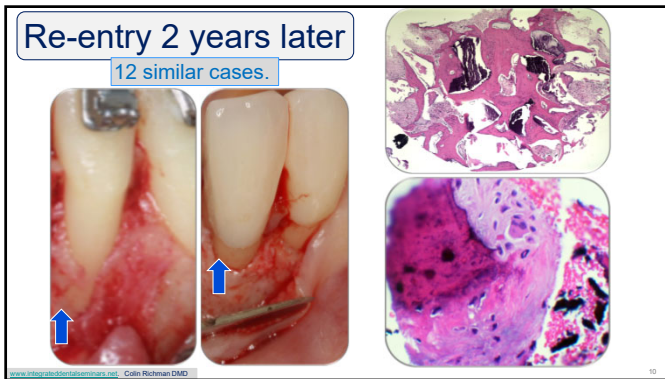
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10

Primary Benefit
 Hard and soft tissue augmentation
 Better orthodontic stability + less risk of gingival recession

Secondary Benefit
 SFOT → RAP effect
 Accelerated wound healing – teeth move faster - Distraction

The Regional Acceleratory Phenomenon –Frost, 1983.

11

11

OTM: Hyaline necrosis versus Osteopenia

1. Corticotomy stimulates RAP - Osteopenia
2. Biologically vs. mechanically mediated tooth movement
3. Tooth moves with its surrounding bony matrix - distraction
4. Orthodontic Tissue Engineering (Neal Murphy DDS)

12

12

Why Don't Our Teeth Fit Our Jaws?

The Problem

Orthodontic Risk Factors
Restorative Risk Factors
Corticotomies
Augmentation

The Remedies

Cases – Adults
Cases - Adolescents
Evidence

The WHY?

Anthropology/Genetics
SFOT – DSDS
Clinical Reality
Take Home Message

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13

How do we treat this case?

1. Recession
2. Esthetics
3. Cross-bite
Malocclusion
4. Periodontitis
5. (7-9 mm PD)
6. Gingivitis
7. Time constraints
8. Crowding



Patient
Considerations
Lifestyle
Biological

Orthodontics Dr James Gray

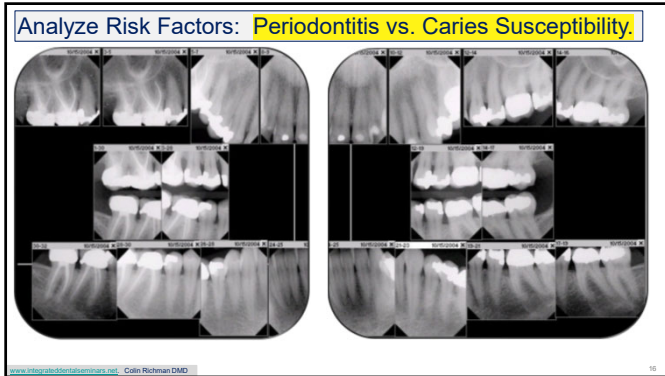
14

Pre-treatment

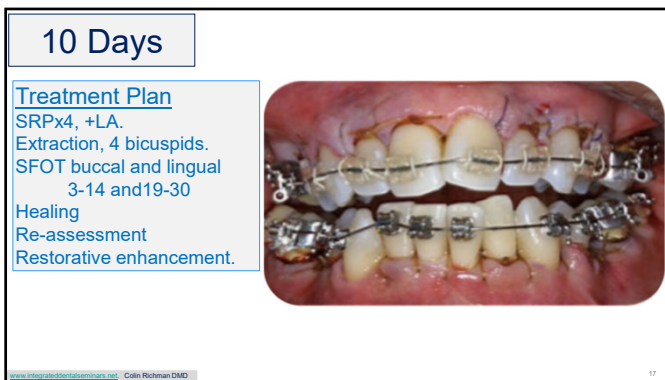
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PD	334	437	534	435	534	434	434	434	434	434	394	535	545	548	545
Bld															
Sup															
GM															
CAL	634	437	534	435	574	434	434	434	434	394	535	545	548	545	
MG															
FG	121	122			1000						1000			112	011
TC															
M															
PMB															
PD	655	647	545	545	655	435	434	434	434	436	655	545	545	657	
Bld															
Sup															
GM															
CAL	655	647	545	546	655	435	434	434	434	436	655	545	545	657	
MG															
TC															
M															
PMB															
PD	655	645	545	556	434	434	434	434	434	134	545	657	756		
Bld															
Sup															
GM															
CAL	655	645	545	556	434	434	434	434	434	534	545	657	756		
MG															
FG	10	10												10	10
TC															
M															
PMB															
PD	665	556	556	556	635	535	534	434	534	545	545	556	745	556	
Bld															
Sup															
GM															
CAL	665	556	556	666	635	535	534	464	534	545	555	576	765	556	
MG															
TC															
M															
PMB															
T#	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18

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15



16



17



18

Interdental Sticks. Kleenteeth.com




BOP - EIBI (Polson/Caton) J P 1988
Eastman Interdental Bleeding Index

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22


Surgical Concepts



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Rational vs. Emotional Brain



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24



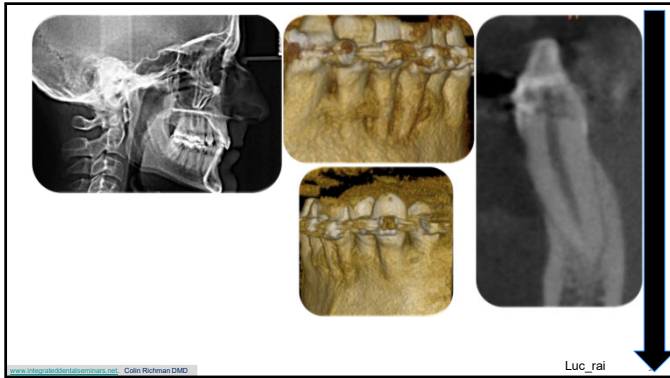
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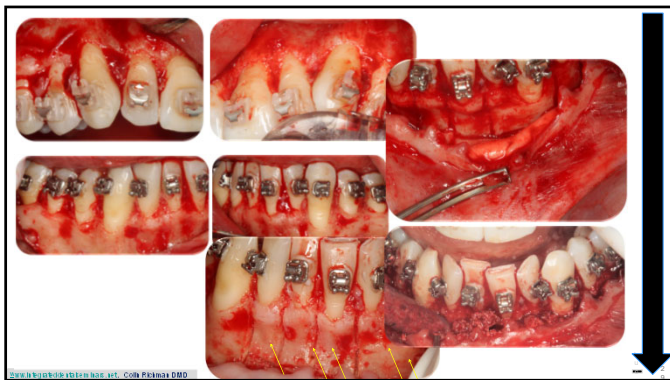
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27



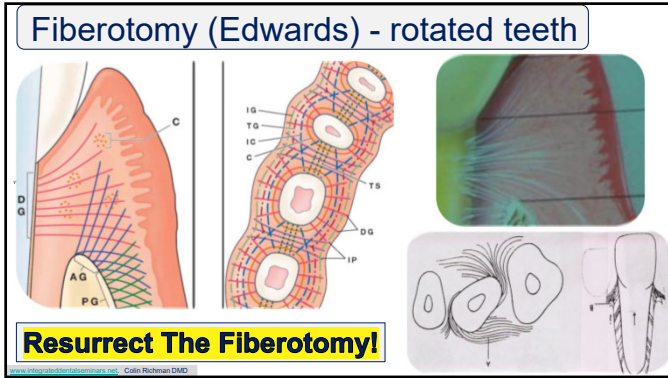
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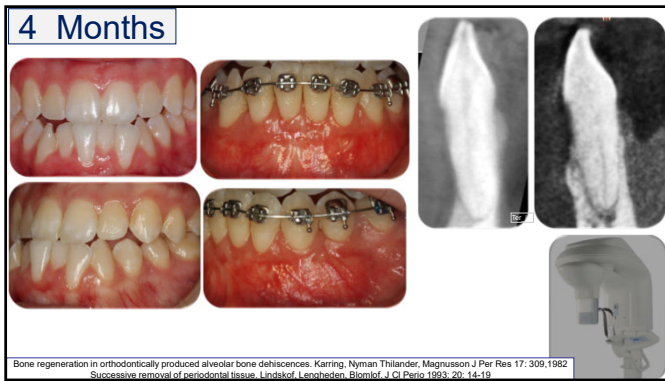
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32



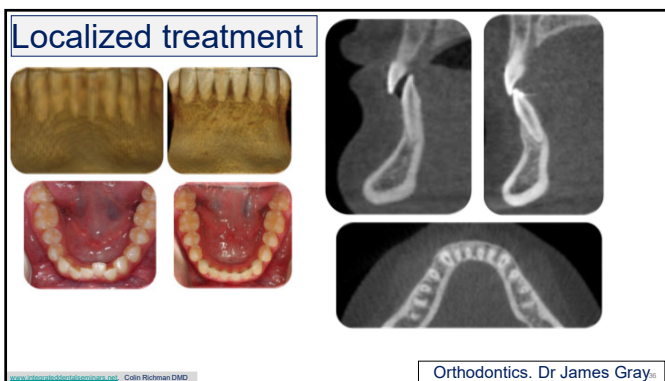
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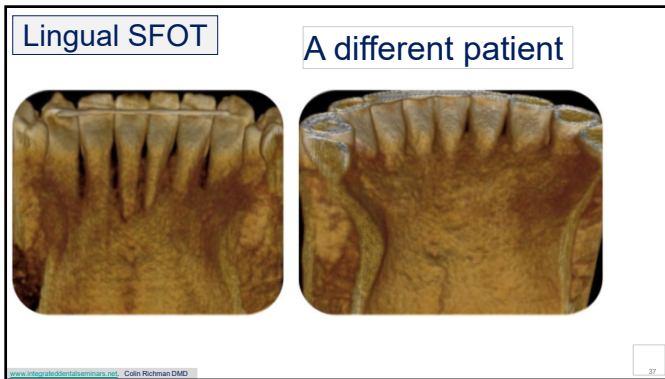
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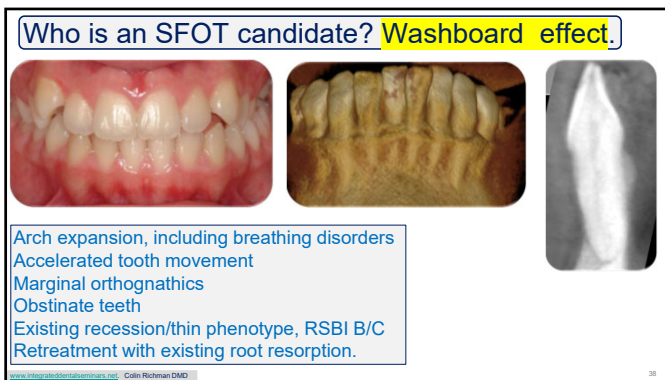
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38



39

Why Don't Our Teeth Fit Our Jaws?

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40

Anthropology, Genetics, Embryology



Generational

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41

Hunter-Gatherer versus Agriculturalists

Anthropology Global human mandibular variation reflects differences in agricultural and hunter-gatherer subsistence strategies

Noreen von Cramon-Taubadel¹
Department of Anthropology, School of Anthropology and Conservation, University of Kent, Canterbury CT2 7NR, United Kingdom



Breast feeding.


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42

Adaptive Evolution (advantageous mutation through positive selection)

Epi-genetics

Linebacker
+
Gymnast



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43



Baboon

Spotted Hyena

Cow

Wilddog

WHY?

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44



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45



46

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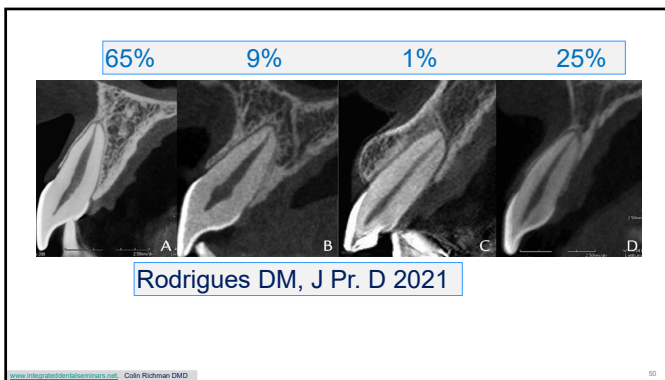
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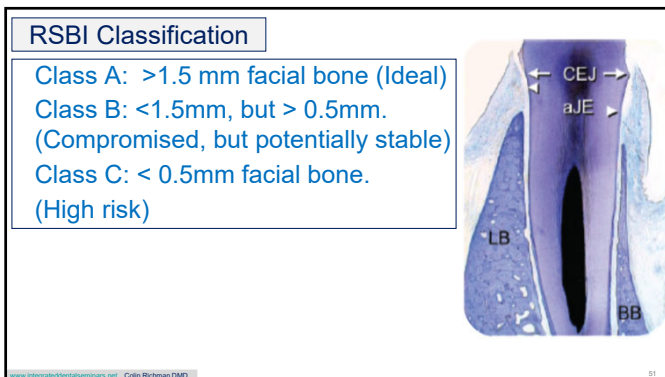
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49



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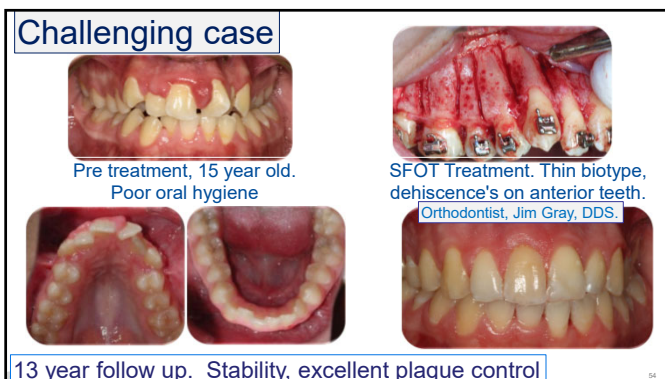
51



52



53



54


One of our happiest patients 



Orthodontics. Dr. J Gray
Prosth. Dr. E Zandstra

55

Maggie Delano RDH




56

Harold Loe DDS, PhD

Plaque – Pockets
No plaque - No P

EVIDENCE – 25 years




Absence of Evidence Is Not Evidence of Absence.
Carl Sagan

57

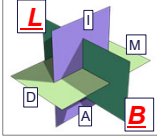
'One Diagnosis,
Multiple Treatment Plans'

(DSDS)
Discrepancy
Tooth volume in the sagittal axis, versus
bone volume in the same sagittal axis.




Morton Amsterdam

SFOT
SFOT
PAOO™
Wilckodontics™
Piezocision
Corticotomies
Propel
SFOT



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58



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